Sampling Plan Addendum to Pre-Remediation Sampling Plan – Revision 2

SPX Former Lindberg/MPH Facility
BRRTS #02-28-555133
Watertown, Wisconsin

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Prepared For
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1.1 Background

In October 2017, TRC Environmental Corporation (TRC), on behalf of SPX, submitted a Revised Pre-Remediation Sampling Plan ("Sampling Plan"; TRC, 2017) to the Wisconsin Department of Natural Resources (WDNR) addressing comments WDNR had made on a prior draft. The Sampling Plan proposed a scope of work to collect soil analytical data necessary to refine the limits of the future PCB remediation area, and to collect additional soil data as requested by the WDNR. The Sampling Plan also presented the site history, site setting, and details of the materials and methods to be used to collect the soil samples. The Sampling Plan was approved by WDNR on November 6, 2017; however, the field investigation was put on hold due to pending litigation and the inability to gain permission to access property owned by Non-Non-Responsive

SPX has decided to move forward with the portion of the Sampling Plan scope of work (SOW) planned for SPX's property located at 304 Hart Street in Watertown, Wisconsin. In the months following the Sampling Plan approval, WDNR has raised several questions regarding the characterization of demolition materials used as backfill in the former basement area of the 304 Hart Street facility. SPX is proposing to sample the backfilled materials in conjunction with the implementation of the 304 Hart Street portion of the approved Sampling Plan, requiring the development of this Sampling Plan Addendum ("Addendum").

1.2 Purpose and Scope

This Addendum has been prepared to support additional field investigation proposed to characterize the material that was used as backfill in the former basement area of the 304 Hart Street facility. Test pits will be installed to collect representative samples of the basement fill material. The Addendum presents details of the SOW, proposed sampling methods, sampling and analytical program, and other details of the implementation of the SOW. The figure attached to the Addendum defines the general limits of the former basement area and proposed sampling locations.

1.3 Scope of Work

To achieve the objectives outlined above, eight (8) test pit locations are proposed to collect fill material samples at the approximate locations shown on **Figure 3.** The proposed scope of work is as follows:

- Install eight (8) test pits to a depth of approximately eight feet below ground surface (bgs). Each test pit will be approximately 3 feet wide, and 8 feet long, targeting locations around the perimeter and interior of the former basement area at 304 Hart Street (**Figure 3**).

- Collect one composite sample of each predominant type of building material identified within each test pit, including brick, concrete block, and concrete slab. Submit each sample to Pace Analytical Laboratory in Madison, Wisconsin (Pace Analytical) for PCB analysis.

The following subsections describe the specific equipment to be used and the procedures to be followed to implement the scope of work.

1.3.1 Test Pit Installation and Fill Material Sampling

Test pits will be advanced using an excavator. The gravel cover material will be removed and segregated from the underlying fill material prior to advancing. Test pit sampling will be conducted continuously from the ground surface to a total depth of eight feet bgs, or until refusal in the test pit. Test pit contents will be placed on plastic next to the test pit. Each test pit and its contents will be described in a field log in accordance with the Unified Soil Classification System (USCS). The test pit materials will be characterized by visual inspection. Representative materials from the contents of each test pit will be selected and segregated for sampling.

Following sampling, all test pit fill materials will be placed back into the test pit excavation and compacted using the excavator. The gravel cover material will then be replaced over the fill materials to restore the area to the previous grade and the underlying plastic will be properly disposed of in accordance with Section 5.5 of the Pre-Remediation Sampling Plan.

Sample processing will consist of generating a pulverized sample of the fill materials using a rotary impact hammer variable speed drill equipped with 1-inch or other suitable (½, ¾, etc.) diameter carbide tip drill bits, or hand tools (steel chisels, hammer, etc.). Aluminum foil and/or aluminum pans will be used to collect the powder sample as it is being generated. The powder will then be transferred into laboratory provided containers. Equipment may be single-use and disposable, or may be re-used once properly decontaminated. All non-disposable sampling equipment will be decontaminated in accordance with Section 5.4 of the Pre-Remediation Sampling Plan prior to collecting the next sample.

1.3.2 Sample Identification

Each test pit location will be identified with a "TP-" followed by a location number. Since no test pits have been installed to date, location numbers will start at "01" and will be numbered sequentially in order of installation. An additional descriptor will be appended to the sample location to identify the sampled media, *e.g.*, "-BRK" for brick, "-CRT" for concrete, and "-BLK" for block.

1.3.3 Laboratory Analysis

Each backfill material PCB sample will consist of (1) 4-oz. amber glass jar filled with a minimum of 10 grams of pulverized/crushed representative material from the test pit. All samples will be placed on ice immediately after collection for transport to Pace Analytical. The samples will be analyzed by EPA Method SW-846 8082A or the most current SW-846 method.

1.3.4 Test Pit Locations

The final locations and dimensions of the test pits will be collected using differential global positioning system (GPS) techniques. A Trimble Geoexplorer handheld GPS unit (or equivalent) with a predicted post-processed accuracy of 1-foot will be used to collect the locations by marking the corner points and/or walking the perimeter of each excavation. All data collected with the GPS unit will be post-processed using nearby reference station Global Navigation Satellite System (GNSS) reference data, as available. GPS data will be projected into the State Plane Wisconsin South coordinate system (NAD83, US Feet).

1.4 Schedule

Field work is expected to commence at the end of May 2018, and is expected to take two to three days to complete. Analytical results are expected to be available within one month of receipt of the samples at the analytical laboratory.

The results of the investigation will be compiled into a Site Investigation Report, to be submitted to the WDNR within ten weeks of the receipt of all of the validated analytical results.

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